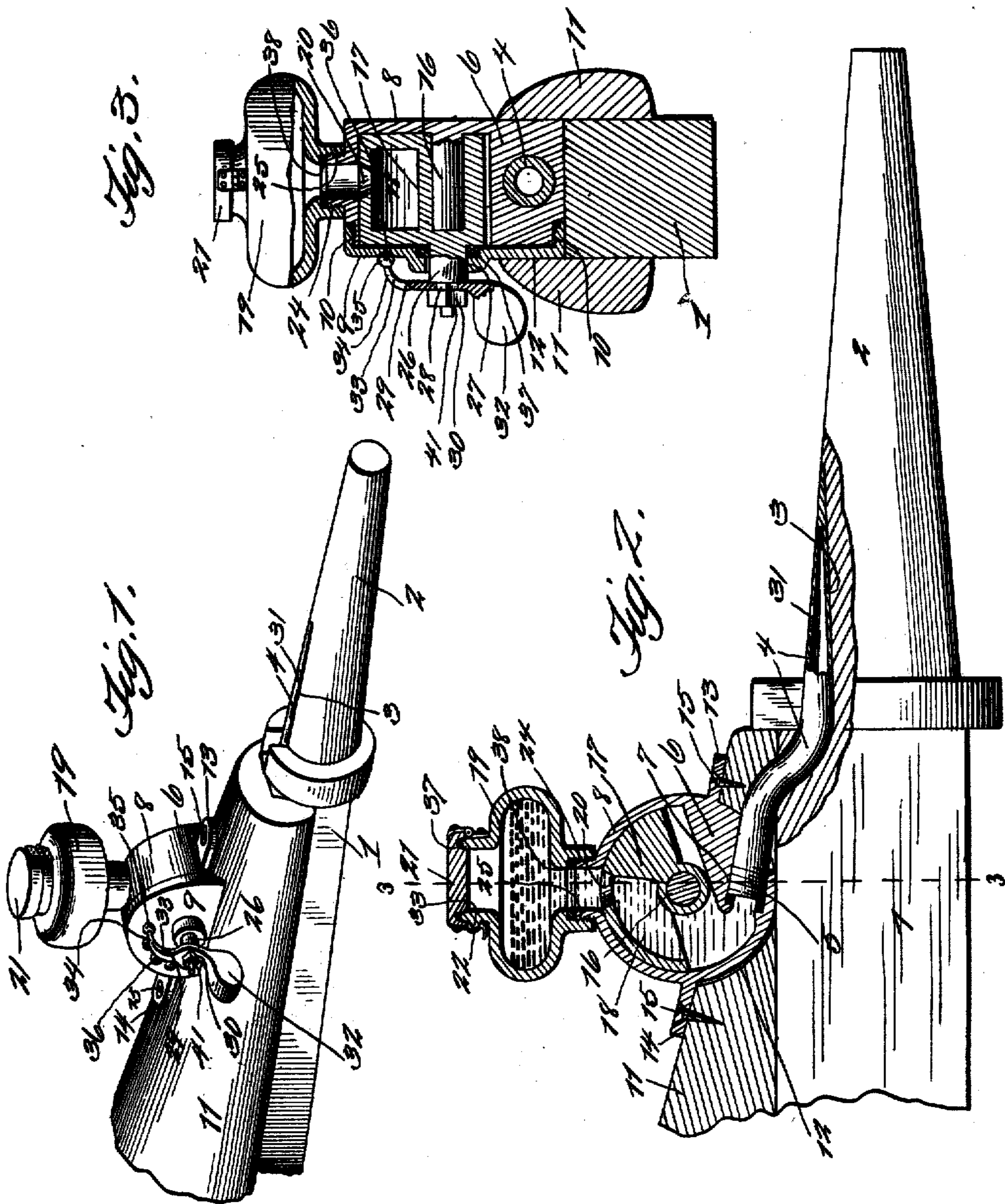


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LUBRICATING DEVICE.  
APPLICATION FILED NOV. 15, 1907.

924,948.

Patented June 15, 1909.  
2 SHEETS—SHEET 1.



Witnesses  
*J. G. Boswell.*  
*M. O. Bowling*

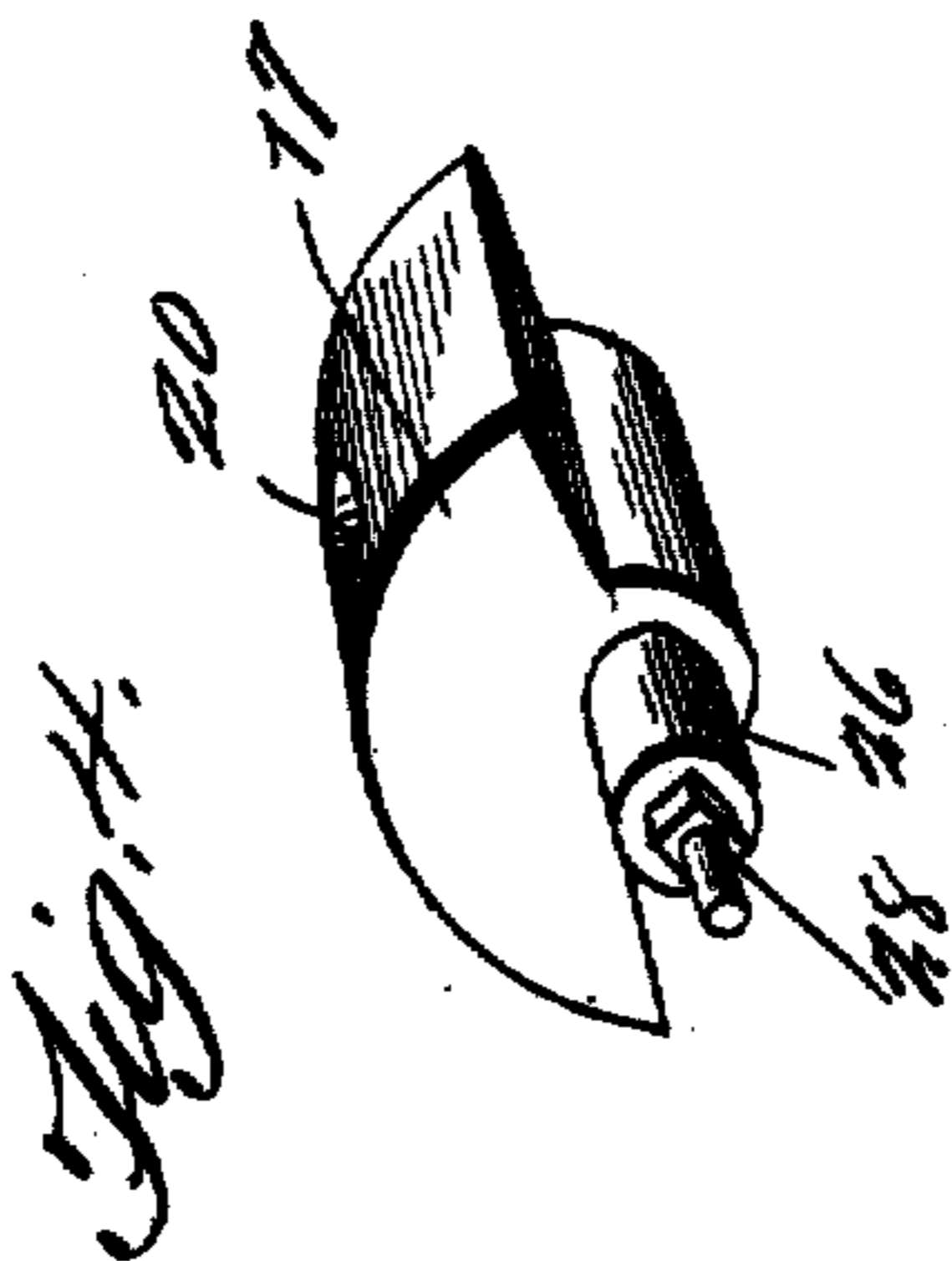
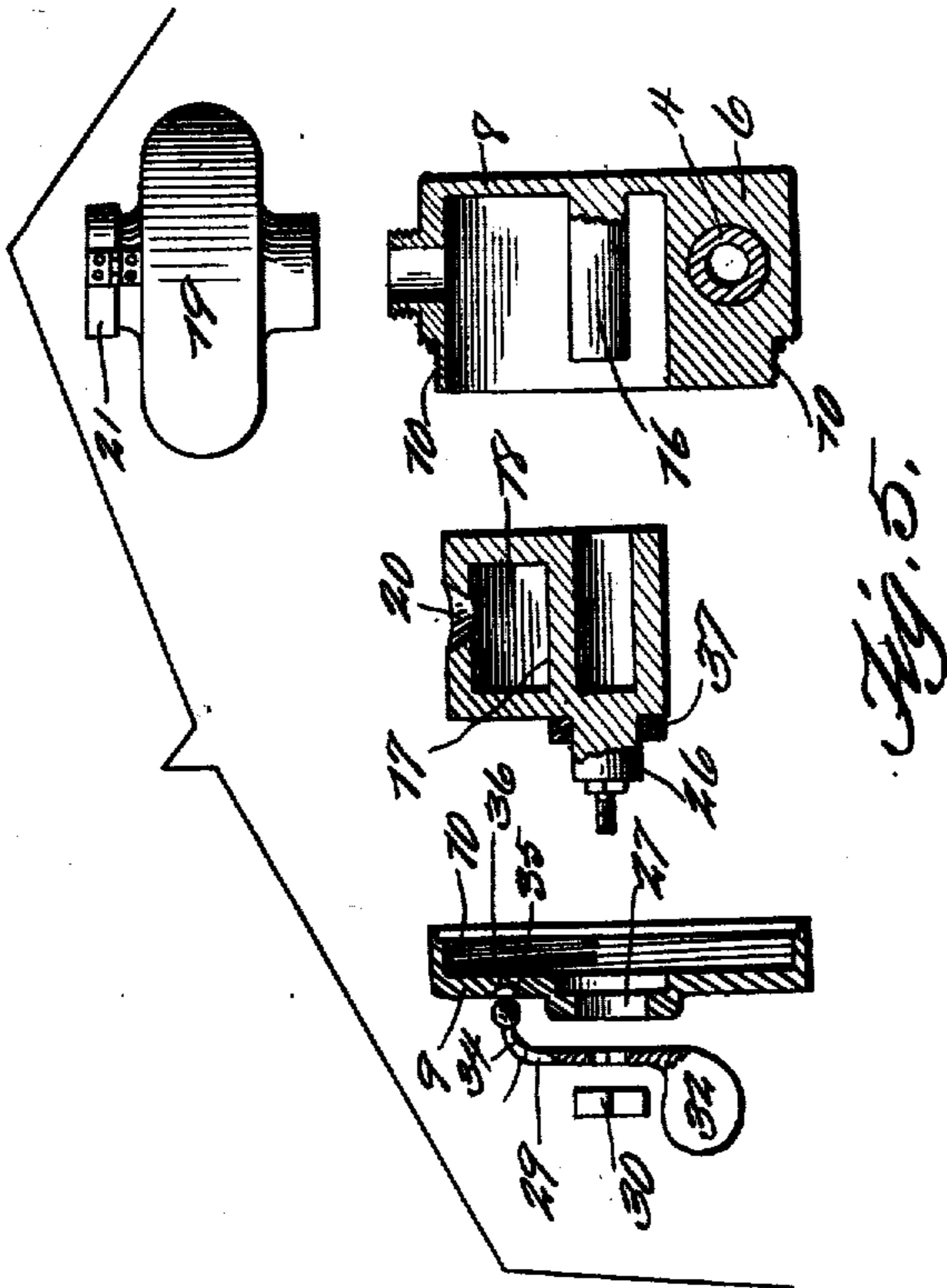
Inventor  
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*M. O. Bowling.*

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*D. Swift & Co.*

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# UNITED STATES PATENT OFFICE.

JAMES M. TIBBS, OF HAZEL GREEN, KENTUCKY.

## LUBRICATING DEVICE.

No. 924,948.

Specification of Letters Patent.

Patented June 15, 1909.

Application filed November 15, 1907. Serial No. 402,318.

*To all whom it may concern:*

Be it known that I, JAMES M. TIBBS, a citizen of the United States, residing at Hazel Green, in the county of Wolfe and State of Kentucky, have invented a new and useful Lubricating Device; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention pertains to a new and useful automatic lubricating device adapted for use upon vehicle axles and wheels; and the invention in its broadest aspect, aims as its essential object to provide a simple, efficient and durable device, of this character which is applicable to the front or rear axle of any make of vehicle.

The invention is directed more particularly to the simple and inexpensive construction, comprising a two part casing, in which an oscillatory valve is mounted, by which the flow of lubricant from the container above the casing is regulated; this casing is fixed within a recess of the bolster of the axle, by means of screws, and is provided with an oil chute or duct, which is seated within a channel of the spindle of the axle, and parallel therewith; this oil chute or duct is provided for the purpose of conveying the lubricant to the bore of the hub of a wheel.

This invention comprises further objects and combinations of elements which will be hereinafter more fully described, shown in the accompanying drawings, and the novel features thereof will be pointed out in the appended claims.

To obtain a full and correct understanding of the details of construction, combinations of features, elements and advantages, reference is to be had to the hereinafter set forth description and the accompanying drawings in connection therewith, wherein—

Figure 1 is a perspective view illustrating the application of the lubricating device upon the bolster and axle of a vehicle. Fig. 2 is a sectional view vertically through the lubricating device and the bolster of the axle, looking upon the longitudinal side of the axle and bolster. Fig. 3 is a sectional view on line 3—3 of Fig. 2. Fig. 4 is a detail perspective view of the oscillatory valve. Fig. 5 is a view showing the parts disassembled.

In regard to the accompanying drawings,

wherein similar reference characters indicate corresponding parts in the several illustrations, by figures, 1 designates an axle, from which the spindle 2 projects, which is provided with a channel 3, to receive the oil chute or duct 4 which is provided with threads 5 for engagement with the casing 6, as at 7, which casing consists of two members 8 and 9, which have threaded connections with one another, as at 10, as clearly disclosed in the drawings. The oil chute or duct 4 is provided with an orifice 31, as clearly shown.

The axle, as shown, is provided with the usual bolster 11, which is provided with a semicircular recess 12, in which the casing is seated, as clearly shown in Figs. 2 and 3; the casing is provided with ears 13 and 14, through which the screws 15 pass, and by which the casing is securely fastened to the bolster, as clearly shown in Fig. 2 of the drawings.

Projecting from the inner face of the member 8 is a stud 16 upon which the oscillatory semicircular valve 17 is mounted, through the passage 18 of which valve the lubricant from the container 19 passes, that is, when the opening 20 of the valve is in registration with the lower portion of the container, as will be clearly manifest.

The container is provided with a hinged closure 21, which is provided with a spring catch 22, adapted for engagement with a lug 23, so as to securely hold the closure from opening by the vibration of the axle, through the action of the wheels of the vehicle upon the surface of the ground; this container is fastened to the casing by means of threads 24, as at 25, as clearly disclosed in Fig. 2.

Projecting from the valve is a lug 26, which extends through an opening 27 of the member 9, as shown; which lug 26 is provided with an extension 28, which is rectangular in cross section to prevent the valve regulating member 29, which is mounted thereon, from displacement relative to the valve, as will be readily observed. To prevent the valve regulating member from being displaced outward a nut 30 is threaded upon the threaded end of said extension, as at 41, as clearly shown.

The valve regulating member is provided with a finger piece 32 and an arm 33, which arm radiates oppositely from the finger piece, as clearly shown; this arm is provided with an inwardly projecting portion 34,

which is provided with a spherical shaped member 35 designed for engagement with a plurality of depressions 36, which are arranged in a semicircular form, as will be apparent from the drawings. It will be readily manifest, that by the manipulation of the valve regulating member the flow of lubricant from the container may be regulated.

10 The opening 27 of the member 9, the closure 21, and the threaded conjunction of the members 9 and 10, are provided with suitable packing 37, so as to provide fluid-tight joints. The apparatus is further provided  
15 with packing, as at 38, to also provide fluid-tight joints.

The features and combinations of elements and the arrangement thereof, for accomplishing the objects of the device may be  
20 changed and varied, that is to say, in a practical application of the apparatus, with an understanding that the said changes and variations accruing from said application are limited within the scope of the appended  
25 claims.

From the foregoing, the essential features, elements and the operation of the device, together with the simplicity thereof, will be clearly apparent.

30 Having thus fully described the invention, what is claimed by the protection of Letters Patent, is:—

1. In a device as set forth, the combination of an axle and a two part casing, an oil  
35 chute or duct communicating with the axle and the casing, a hollow semi-circular valve, one of said parts of the casing having a stud integral therewith upon which the valve is pivotally mounted, a lubricant container  
40 fixed above the casing and means for manipulating the valve by which the lubricant flowing from the container is regulated.

2. In a device as set forth, the combination of an axle and a two part casing, an oil  
45 chute or duct communicating with the axle and the casing, a hollow semicircular oscillatory valve mounted within the casing having an opening, one of said parts of the casing having a stud integral therewith upon  
50 which the valve is pivotally mounted, a lubricant container fixed above the said cas-

ing, and means for manipulating the valve, said casing having depressions to be engaged by said means to hold the same in its adjusted position.

55

3. In a device as set forth, the combination of an axle having a spindle and a two part casing, an oil chute or duct communicating with the spindle and the casing, a hollow semicircular oscillatory valve having an  
60 opening, a lubricant container fixed above said casing, said valve having means detachably carried thereby for manipulating the same comprising a handle, and a spring arm, said casing having depressions to be en-  
65 gaged by said spring arm to hold the valve in its adjusted position.

4. In a device as set forth, the combination of an axle having a spindle and a two part casing, an oil chute or duct communi-  
70 cating therebetween, a hollow semi-circular oscillatory valve having an opening, one of said parts of the casing having a stud integral therewith upon which the valve is pivotally mounted, a lubricant container, said  
75 valve having means detachably carried thereby for manipulating the same comprising a handle and a spring arm, said casing having depressions to be engaged by said spring arm to hold the valve in its adjusted  
80 position.

5. In a device as set forth, the combination of an axle having a spindle and a two part casing, an oil chute or duct communicating with the spindle and casing, an os-  
85 cillatory valve having an opening, one of said parts of the casing having a stud integral therewith upon which the valve is pivotally mounted, a lubricant container, said casing having a plurality of depressions upon one  
90 of its faces, and a valve regulating member to cooperate therewith by which the valve is manipulated so as to regulate the flow of lubricant.

In testimony whereof I have signed my  
95 name to this specification in the presence of two subscribing witnesses.

JAMES M. TIBBS.

Witnesses:

C. B. ROSE,  
SHERMAN ELAM.